

BI ET AL.
"Broadcast/Multicast Services In Wireless
Communications Networks"
Atty. Docket No. CS23442RL

Appl. No. 10/749,021
Confirm. No. 8438
Examiner P. Desir
Art Unit 2681

REMARKS

Request for Reconsideration, Informal Matters, Claims Pending

The non-final Office action mailed on 21 May 2005 has been considered carefully. Reconsideration of the claimed invention in view of the amendments above and the discussion below is respectfully requested.

Claim 7 has been amended grammatically to address the informality noted by the Examiner.

Claims 1-26 are pending.

Allowability of Claims Over Sarkkinen

Rejection Summary

Claims 1-3, 5, 9-12, 20 and 22-25 stand rejected under 35 USC 102(e) as being anticipated by U.S. Publication No. 2003/0211855 (Sarkkinen).

Allowability of Claim 1

Regarding Claim 1, contrary to the Examiner's assertion, Sarkkinen fails to disclose or suggest an

... method in wireless communications network infrastructure, the method comprising:
transmitting first layer broadcast/multicast service content information on a first channel;
transmitting second layer broadcast/multicast service content information on a second channel,

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at least one of the first and second channels a shared broadcast channel,

the first layer broadcast/multicast service content information related to the second layer broadcast/multicast service content information,

at least one of the first and second layers capable of being decoded and used without the other of the first and second layers.

At para. [0026], Sarkkinen discloses sending control information from a mobile station (104) to a wireless network controller (106) and sending user data from the network to the mobile station. The control information in Sarkkinen is not the same as "service content information". It is well known in the art that service content information is the data, e.g., text, streaming media, etc., received by the mobile station, not control information that facilitates the reception. Moreover, Sarkkinen does not disclose transmitting first and second layers of related content from the same entity. At para. [0028], Sarkkinen discloses that the control information originates from one entity, i.e., the MBMC (110) in the mobile station, and the user data is provided from a different entity, i.e., the MBMC (114) in the network controller (106). Claim 1 is thus patentably distinguished over Sarkkinen.

Allowability of Claim 20

Regarding independent Claim 20, contrary to the Examiner's assertion, Sarkkinen fails to disclose or suggest a

... method in wireless communications device, the method comprising:

receiving a message identifying a channel on which content will be transmitted;

receiving first layer content information on a first channel;

receiving second layer content information on a second channel,

at least one of the first and second channels identified in the message.

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In Sarkkinen, at para. [0028], the control information originates from one entity, i.e., the MBMC (110) in the mobile station, and the user data originates from a different entity, i.e., the MBMC (114) in the network controller (106). Thus Sarkkinen does not disclose a wireless communication device that receives first and second layer content on corresponding channels identified in a message. Claim 20 is thus patentably distinguished over Sarkkinen.

Allowability of Claims Over Sarkkinen & Ranta-Aho

Rejection Summary

Claims 4, 6-8 and 13-19 stand rejected under 35 USC 103(a) as being unpatentable over U.S. Publication No. 2003/0211855 (Sarkkinen) in view of U.S. Publication No. 2004/0008125 (Ranta-Aho).

Allowability of Claim 13

Regarding independent Claim 13, contrary to the Examiner's assertion, Sarkkinen and Ranta-Aho fail to disclose or suggest a

... method in wireless communications network, the method comprising:
transmitting content and reliability information on a first channel;
transmitting additional reliability information for the content on a second channel,
the reliability and additional reliability information for decoding the content.

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The Examiner concedes that Sarkkinen fails to disclose transmitting additional reliability information for the content on a second channel, but asserts that Ranta-Aho discloses transmitting reliability information on a channel (spreading codes for other cells) and that it would have been obvious to combine the teachings of these references to "... ensure the authentication of the information being transmitted and received."

Contrary to the Examiner's assertion neither Sarkkinen nor Ranta-Aho disclose or suggest transmitting reliability information on first and second different channels for the same content. Moreover, the cell spreading codes of Ranta-Aho are not even "reliability information". Claim 13 is thus patentably distinguished over the art.

Allowability of Claims Over Sarkkinen & Ranta-Aho

Rejection Summary

Claim 26 stands rejected under 35 USC 103(a) as being unpatentable over U.S. Publication No. 2003/0211855 (Sarkkinen) in view of U.S. Publication No. 2004/0008125 (Ranta-Aho) and U.S. Publication No. 2005/0075124 (Willenegger).

Allowability of Claim 13

Regarding independent Claim 13, contrary to the Examiner's assertion, Sarkkinen, Ranta-Aho and Willenegger fail to disclose or suggest a

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... method in broadcast/multicast subscriber device, the method comprising:
receiving first layer content information on a first channel;
receiving second layer content information on a second channel,
at least one of the first and second channels a shared broadcast channel,
receiving the first layer content information and the second layer content
information substantially simultaneously,
integrating the first and second layer content information at the wireless
communications device.

In Sarkkinen, at para. [0028], the control information originates from one entity, i.e., the MBMC (110) in the mobile station, and the user data originates from a different entity, i.e., the MBMC (114) in the network controller (106). Thus Sarkkinen does not disclose a wireless communication device that receives first and second layer content on corresponding channels identified in a message. Neither Ranto-Aho nor Willenegger disclose or suggest this deficiency of Sarkkinen. Willenegger discloses MBMS data having padding bits to support variable frame rates, and controlling the transmit power to multiple terminals based on a stream of joint power control commands. Claim 26 is thus patentably distinguished over the art.

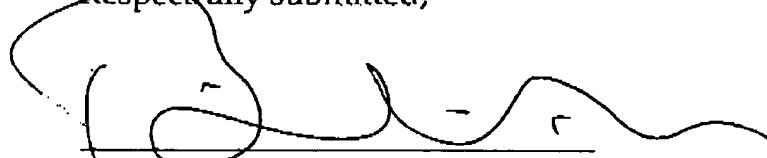
Prayer For Relief

In view of any amendments and the discussion above, the Claims of the present application are in condition for allowance. Kindly withdraw any rejections and objections and allow this application to issue as a United States Patent without further delay.

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Respectfully submitted,


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